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<tr>
<th>Time</th>
<th>Location</th>
<th>Workshop</th>
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<td>Sunday 8:30AM - 12:00PM</td>
<td>Marriott, Thurgood Marshall West</td>
<td>Workshop 101</td>
<td>There Is Plenty of Room at the Bottom: Nanotechnology Applications for Asphalt and Concrete Materials</td>
<td>Surendra P. Shah</td>
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<td>Overview of Nanotechnology For Construction Materials</td>
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<td><strong>P13-5376: Controlling Properties of Concrete Through Nanomodification</strong></td>
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<td><strong>Surendra P. Shah</strong></td>
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<td><strong>P13-7015: Real-time Road Weather Modeling Case Studies</strong></td>
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<td><strong>Hani S. Mahmassani</strong></td>
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<tr>
<td>Sunday 1:30PM- 4:30PM</td>
<td>Marriott, Washington B3</td>
<td>Workshop 160</td>
<td>Impact of Information on Decisions, Choices, and Behaviors of Travelers</td>
<td>Hani S. Mahmassani</td>
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<td><strong>P13-5002: Social, Personal, Green, and Mobile: Expanding Boundaries for Traveler Information</strong></td>
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<td><strong>Hani S. Mahmassani</strong></td>
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<tr>
<td>Sunday 1:30PM- 4:30PM</td>
<td>Hilton, Jefferson West</td>
<td>Workshop 186</td>
<td>New Perspectives on Stated-Response Experiments: Facing Up to Complexity, Subtlety, and Practicality</td>
<td>Hani S. Mahmassani</td>
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<td><strong>P13-5642: Leveraging Emerging Technologies: Blurring of Boundaries Between Laboratory and Field Environments</strong></td>
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<td><strong>Hani S. Mahmassani</strong></td>
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<tr>
<td>Sunday 1:30PM- 4:30PM</td>
<td>Marriott, Maryland A</td>
<td>Workshop 161</td>
<td>Practical Health Monitoring for Transportation Structures</td>
<td>David Kosnik</td>
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<td><strong>P13-5631: Continuous, Long-Term Structural Health Monitoring for Bridge Preservation: Case Studies from Wisconsin, Illinois, and California</strong></td>
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<td><strong>David Kosnik</strong></td>
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<tr>
<td>Sunday 1:30PM- 5:30PM</td>
<td>Hilton, Columbia Hall 9</td>
<td>Workshop 181</td>
<td>Doctoral Student Research in Transportation Modeling</td>
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<td><strong>P13-7039: Dynamic Morning Commute Problem with Heterogeneous Users and Welfare Effects of Congestion Pricing and Transit Service</strong></td>
<td>Yang Liu</td>
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<td><strong>Yang Liu</strong></td>
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<td><strong>P13-7042: Scenario-Based Travel Time Reliability Analysis Using Traffic Simulation Models</strong></td>
<td>Jiwon Kim</td>
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<td><strong>Jiwon Kim</strong></td>
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<tr>
<td>Monday 7:00AM- 8:00AM</td>
<td>Hilton, Holmead</td>
<td>Planning Committee for Workshop on Adapting Freight Models and Traditional Freight Data Programs for Performance Measurement</td>
<td>Joseph L. Schofer, presiding</td>
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<td>Session 230</td>
<td><strong>MAP-21 Demands on Transportation Data Programs</strong></td>
<td>Joseph L. Schofer, presiding</td>
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<td><strong>Joseph L. Schofer, presiding</strong></td>
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<td>213</td>
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<td>Urban Networks</td>
<td>Hani S. Mahmassani, Tian Hou, Meead Saberi</td>
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<td>248</td>
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<td>Shoreham</td>
<td>Session 248: Current Research in Freight Transportation and Logistics Planning and Operations</td>
<td>Christopher Lindsey, Andreas Frei, Hamed Ali Babai, Hani S. Mahmassani, Young-Woong Park, Diego Klabjan</td>
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<td>268</td>
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<td>Shoreham</td>
<td>Modeling Theories and Practices in Freight Planning and Logistics, Part 1 (Part 2, Session 321)</td>
<td>Pei-Ju Wu</td>
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<td>326</td>
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<td>Hilton</td>
<td>Deploying News Alerts to the Transportation Research Community: Delivering Things Smarter, Better, Faster</td>
<td>Paul R. Burley, presiding</td>
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<td>Marriott</td>
<td>Current Topics in Traffic Control Devices</td>
<td>Charlotte Frei, Hani S. Mahmassani, Meead Saberi</td>
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<td>393</td>
<td>3:45PM- 5:30PM</td>
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<td>Network Models for Transit and Facility Location</td>
<td>Ismail Omer Verbas, Hani S. Mahmassani</td>
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### Session 398
**Monday 4:15PM- 6:00PM**  
**Marriott, Salon 2**  
**Calibration of Traffic Models**
- **13-5359: Calibration of Traffic Flow Models Under Adverse Weather and Application in Mesoscopic Network Simulation Procedures**
  - Tian Hou
  - Hani S. Mahmassani
  - Jiwon Kim
  - Meead Saberi

### Session 407
**Monday 4:15PM- 6:00PM**  
**Shoreham, Blue Room Foyer**  
**Current Research in Urban Freight Transportation**
- **13-2963: City Logistics: Freight Management with Time-Dependent Travel Times and Application to Large-Scale Networks**
  - Lan Jiang
  - Hani S. Mahmassani

### Session 404
**Monday 4:15PM- 6:00PM**  
**Marriott, Salon 2**  
**Innovations in Traffic Flow Theory and Characteristics, and Highway Capacity and Quality of Service**
- **P13-6820: Capacity Drop Phenomena in Urban Networks**
  - Meead Saberi
  - Hani S. Mahmassani

### Session 420
**Monday 4:15PM- 6:00PM**  
**Hilton, International Center**  
**SHRP 2 Capacity and Reliability: Works in Progress and Emerging Products**
- **P13-6561: L04 Incorporating Reliability Performance Measures in Operations and Planning Modeling Tools**
  - Hani S. Mahmassani

### Session 424
**Monday 4:15PM- 6:00PM**  
**Hilton, International Center**  
**Understanding Interactions at Transit Stop and Route Levels: Tools to Estimate Accessibility and Demand**
- **13-5252: Stretching Resources: Sensitivity of Optimal Bus Frequency Allocation to Stop-Level Demand Elasticities**
  - Ismail Omer Verbas
  - Charlotte Frei
  - Hani S. Mahmassani
  - Raymond Chan

- **13-3413: Riding More Frequently: Disaggregate Ridership Elasticity Estimation for a Large Urban Bus Transit Network**
  - Charlotte Frei
  - Hani S. Mahmassani

### Session 451
**Monday 7:30PM- 9:30PM**  
**Hilton, Jefferson West**  
**Network Traffic Assignment and Equilibrium Models**
- **13-1215: Assigning User Class Link Flows Uniquely**
  - David Boyce

- **13-1423: Assessment of Adherence to the Condition of Proportionality in User Equilibrium Traffic Assignments with Uniquely Determined Route Flows**
  - David Boyce
13-4100: Solving Multiclass Percentile User Equilibrium Traffic Assignment Problem: Computational Study  
Yu Nie

13-5174: Does LUCE Outperform OBA? Comparison Study of Two Bush-Based Algorithms for Traffic Assignment Problem  
Yu Nie

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| 13-3493: Industrial Space Demand and Freight Transportation Activity: Exploring the Connection  
Christopher Lindsey  
Hani S. Mahmassani |

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<td><strong>Session 557</strong></td>
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<td>Current Issues in Transportation and the Environment</td>
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| 13-4185: Incorporating Environmental Measures into a Reliable Freight Routing Model  
Qianfei Li  
Yu Nie |

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<td>Dwight David Eisenhower Transportation Fellowship Program, Part 1 (Part 2, Session 663)</td>
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| P13-6221: Temporal and Spatial Patterns of Transit Ridership: Within-day and Seasonal Variation in Transit Ridership for Improved Service Allocation in a Large Urban Bus Network  
Charlotte Frei |

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| 13-5287: Implementation and Evaluation of Weather-Responsive Traffic Management Strategies: Insight from Different Networks  
Jiwon Kim  
Hani S. Mahmassani  
Ying Chen  
Tian Hou  
Lan Jiang  
Meead Saberi  
Ismail Omer Verbas  
Ali Zockaie Kheiraie |

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<tr>
<td><strong>Session 667</strong></td>
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Hani S. Mahmassani |
### Tuesday 7:30PM - 9:30PM
**Session 687**
Making Asset Management Work: Innovative Ideas and Best Papers from Annual Interuniversity Symposium on Infrastructure Management

- **P13-6306:** Multivariate Statistical Process Control for Structural Health Monitoring
  - **Yikai Chen**

### Wednesday 8:00AM - 9:45AM
**Session 714**
Ecodriving: Empirical Study and Modeling

- **13-4237:** Ecorouting Model Considering Microscopic Vehicle Operating Conditions
  - **Yu Nie**
  - **Qianfei Li**

### Wednesday 8:00AM - 12:00PM
**Statewide Transportation Data and Information Systems Committee**
(10:15AM) VI. MAP-21 Impacts and Where Do We Go From Here: Meeting Agency Information Needs
(Session 230) **Joe Schofer**

### Wednesday 8:30AM - 10:15AM
**Session 726**
Traffic Flow Theory and Characteristics, Part 2 (Part 1, Session 497)

- **13-5347:** Toward Capturing Sources of Travel Time Unreliability in Microscopic Traffic Models: Driver Heterogeneity, Flow Breakdown, and Crash Occurrence
  - **Alireza Talebpour**
  - **Hani S. Mahmassani**
  - **Jiwon Kim**

### Wednesday 8:30AM - 10:15AM
**Session 736**
Transportation Demand Forecasting: Latest Research and Applications

- **13-5035:** Toll Pricing: Computational Tests on How to Capture Heterogeneity of User Preferences
  - **Lan Jiang**
  - **Hani S. Mahmassani**

### Wednesday 2:45PM - 4:30PM
**Session 800**
Advances in Network Modeling

- **P13-6614:** Solving Multiclass Percentile User Equilibrium Traffic Assignment Problem: Computational Study (13-4100)
  - **Yu Nie**

- **P13-6609:** Assigning User Class Link Flows Uniquely (13-1215)
  - **David Boyce**

- **P13-6610:** Assessment of Adherence to the Condition of Proportionality in User Equilibrium Traffic Assignments with Uniquely Determined Route Flows (13-1423)
  - **David Boyce**

- **P13-6635:** Optimal Allocation of Service Frequencies over Transit Network Routes and Time Periods: Formulation, Solution, and Implementation Using Bus Route Patterns (13-5267)
  - **Ismail Omer Verbas**
  - **Hani S. Mahmassani**
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| 828     | Simulation and Calibration | 13-3564: Scenario-Based Approach to Travel Time Reliability Analysis Using Traffic Simulation Models  
Jiwon Kim  
Hani S. Mahmassani |
| 832     | Sustainable Networks, Electric Vehicles, and Congestion Pricing | 13-1826: Analysis and Design of Tradeable Credit Schemes Under Uncertainty  
Yu Nie |
| 841     | Macroscopic Models and Freeway Networks | 13-4247: Speed Harmonization: Effectiveness Evaluation Under Congested Conditions  
Alireza Talebpour  
Hani S. Mahmassani  
13-2391: Empirical Characterization and Interpretation of Hysteresis and Capacity Drop Phenomena in Freeway Networks  
Meead Saberi  
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| 844     | Shortest Paths, Stochastic Routing, and Network Design | 13-2771: Bicriterion Shortest-Path Problem with a General Nonadditive Cost  
Peng Chen  
Yu Nie  
13-4425: Impacts of Correlations on Reliable Shortest-Path Finding: Simulation-Based Study  
Ali Zockaie Kheiraie  
Yu Nie  
Hani S. Mahmassani |